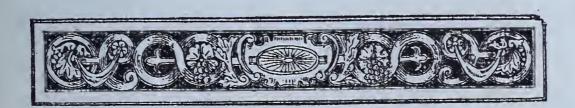
# CITY OF McKEESPORT

PENNSYLVANIA.

Twenty - fifth Annual Report of the Board of Water and Lighting Commissioners to City Councils for Year Ending December 31st, 1907.



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#### CITY OF McKEESPORT.

# 25TH ANNUAL REPORT

——OF THE——

# Board of Water and Lighting Commissioners

\_\_\_\_ТО-\_\_\_

# CITY COUNCILS

---FOR THE----

YEAR ENDING DECEMBER 31ST,

1907.

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1908.
HUTCHISON & BROADBENT, PRINT,
MCKEESPORT, PA.

Jupl. 1912

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# OFFIGERS AND EMPLOYEES

OF WATER DEPARTMENT.

#### Board of Water and Lighting Commissioners.

J. B. AYRES, CHAIRMAN	Term	expires	April,	1908
WM. EVANS	Term	expires	April,	1909
GEORGE B. HERWICK	Term	expires	April,	1910

Superintendent, T. H. VERNER.
Secretary, D. S. TOBIN.
City Plmmber, ANDREW P. NELSON.
Inspector, GEO. D. MOFFAT.
Meterman, S. M. STRONG.
Street Foreman, D. B. HOUGH.
Chief Engineer, MORITZ WOLF.

#### Assistant Engineers:

JOS. B. SMITH,
SAMUEL HUTCHINSON,
CHAS. H. TUCKER,

WM. E. NEIMAN, JONAS CHERRINGTON, JOHN RUPPERT.

## REPORT OF THE

# Board of Water Commissioners.

McKeesport, Pa., January 1, 1908.

To the Select and Common Councils of the City of McKeesport:

Gentlemen:—In compliance with the Act of Assembly governing cities of the third class, the Board of Water and Lighting Commissioners respectfully submits its Seventeenth Annual Report, being the twenty-fifth annual report of this Department.

The receipts and expenditures were as follows, as shown by the report of the Secretary of the Board, to which we refer you for a more detailed report:—

Receipts from all sources
Expended for maintenance and repairs\$38,873.19
Expended for construction
Expended for meters and meter repairs 4,024.27
Water, Tenth ward4,014.23
Total expenditures\$69,452.01

The number of permits for service connections issued during the year was 210, a decrease of 107 from the year 1906, making the total number to date 5,963. As shown by the Superintendent's report, the average number of gallons of

water pumped per day was 4,851,780, an increase of 427,848 gallons per day over 1906.

The total amount of water pumped in 1907 was 1,770,-899,795 gallons.

The machinery and buildings are in good condition, of which the Superintendent treats fully in detail.

Your Board of Water and Lighting Commissioners would report satisfactory progress being made in the Water Treating Plant, which was commenced in July, 1907, and in accordance with the plans adopted. Work was suspended during the extreme winter weather, but notwithstanding this suspension we believe the work will be completed on contract time. The status of the work at present being about fifty per cent. complete.

J. B. AYRES,
GEO. B. HERWICK,
WM. EVANS,
Commissioners

#### REPORT OF THE

# Superintendent.

To the Honorable Board of Water and Lighting Commissioners of the City of McKeesport, Pa.:

Gentlemen:—I herewith submit my report of the condition and operation of the Water Department for the year ending December 31, 1907.

#### ENGINES AND BOILERS.

The two Blake engines and the Wilson-Snyder engine at the main pumping station are in good condition.

The Worthington engines on the well system and at the high service pumping station are all in good condition.

The boilers at both pumping stations are in fairly good condition.

The new boilers now being erected at the main pumping station will be of great benefit to us when completed and in operation.

During the year ending December 31, 1907, the Blake engines were operated 8,223 hours.

During the year ending December 31, 1907, the Wilson-Snyder engine was operated 1,205 hours.

The average daily pumping time for the year was 23 hours, 42 minutes, per day. The total amount of water pumped during the year was 1,770,899,795 gallons, averaging 4,851,780 gallons per day.

The cost of all repairs at the main pumping station in 1907 were \$1,517.54. The cost of all repairs at the high service pumping station in 1907 were \$168.78. The pumping expenses at the main pumping station in 1907 were \$17,589.35. The pumping expenses at the high service pumping station in 1907 were \$5,249.71.

#### BUILDINGS.

The buildings at both pumping stations, also the storage house, are all in fairly good condition,

#### DISTRIBUTING SYSTEM.

The cast iron mains are in fairly good condition, except five or six miles, which are too small and should be replaced with new and larger pipe as soon as possible.

The wrought iron mains, of which there are about three and one-half miles, are in bad condition, and should be replaced with new and larger pipe in the near future.

The street valves and fire hydrants are in good condition.

In 1907 12,644 feet of new mains were laid, 62 street valves placed, and 10 new fire hydrants set. This makes a total of 310,976 feet, or 58 and four-fifths miles of main pipes, 729 street valves, and 404 fire hydrants in use December 31, 1907.

#### PLUMBING DEPARTMENT.

During the past year 797 curb stops, 144 corporation stops, and 483 curb boxes were put in to replace worn out ones; 549 service pipes were cleaned out, 220 service pipes were repaired, 71 raised, 89 lowered, 106 replaced, and 39 enlarged; 137 fire hydrants, 2 street valves, and 18 broken street mains were repaired.

#### METER SYSTEM.

There are now in use in the city a total of 1,535 meters, or 147 more than in 1906. The following table shows the number and sizes of meters in use:

			S	IZE	01	F M	EΤ	ER	s.			
NAME OF METER.		3/8	1/2-5/8	3/4	1	11/2	2	3	4	6		Т'1.
Crown Pittsburg & Keystone	•••	18	646 56		35 12		6	4	 1	•••		760 94
Hersey Worthington		• • • • •	88	,1	3	••••	1	 1	•••	• • •		93
Westinghouse	• • •		15 397	50	19		9		 1	•••		15 487
Empire	• • •		28 36	2	• • •	••••	1	• • •		•••		31 36
Davies	• • •		2				• • •	• • •	1 1	• • •		2 3
Thompson					1	••••					, ,	4
Nash Register on Elevators	1		1	•••••					• • •	• • •	•••	1
Total	$\frac{1}{1}$	18	1277	117	69	21	19	8	2	3		1535

PUMPING RECORD-1907.

	BLA	BLAKE ENGINES.	WIL	WILSON-SNYDER ENGINES.				Av'G.	j.
1907.	Римр'с Тіме, Ноияз.	GALLONS OF WATER PTMPED.	Римр'с Тіме, Ноивз.	GALLONS OF WATER PUMPED.	TOTAL NO. OF GALLONS PUMPED EACH MONTH.	Average No. of Gallons Pumped Each Day.	TOTAL TIME.	Honrs.	Alinutes.
January	735	136,205,300	37		139,338,	4	744	24	
February	653	137,172,280	63	7,961,275		5,183,341	672	22	27
April	507	118,371,680	284		144,552,	4	720	24	
May	695	131,799,920	74		138,220,530	4.458,726		24	:
June	716	133,543,540	$\infty$		144,341,175	4,811,372		24	: i
July	704	146,361,740	201	10,978,285	157,340,025	5,075,484	739	25	30,2
September	720	150,819,020	    - 			5.254.106		22	3
October	720	137,133,500	174		154,951,815	4,998,	744	24	
November	700	139,503,420	31		142,633,660	4,754,455	700	23	20
December	741	139,330,040	33		142,484,030	4,596,259	744	24	:
Total[8,223]1,639,911,660 1.205	8,223	1,639,911,660	1.205	121,048,135 1,770,899,795 4,851,780 8,652 23 42	1,770,899,795	4,851,780	8,652	23	42

Average pumping time per day, 23 hours, 42 minutes.

#### COMPARATIVE STATEMENTS.

In 1907 the total amount of water pumped was 1,770,899,-795 gallons; in 1906 the amount of water pumped was 1,614,-735,375 gallons; an increase of 56,164,420 gallons.

Income of receipts per 1,000,000 gallons pumped: 1906. \$45.50; 1907, \$41.07.

Cash receipts of the Water Department from 1892 to 1907, both inclusive:

1892	\$34,386.90
1893	37, <b>13</b> 9.85
1894	40,334.52
1895	35, 362.75
1896	37,472.99
1897	40,433.52
1898	43,861.35
1899	45,952.09
1900	50,531.74
1901	57,716.17
1902	61,782.27
1903	66,044.26
1904	66,353.51
1905	72,062.96
1906	73,744.44
1907	72,740.04

1906.

1907.

Average daily consumption per capita,

(40,000 population estimated)....110½ gal.

121 gal.

Expenditures for maintenance and operation per 1,000,-000 gallons pumped, \$24.07.

Statistics of the W	ater	Works for Each	ch Year	Since Co	Commencement.	ement.
					WATER METER	ER ACCT.
Year-Date.	GALLONS PUMPED.	WATER RENTS.	MAIN- TENANCE.	Con- STRUCTION.	Receipts.	Expendi- tures.
Riret 1883	143,770,256	8 8.401.87	\$ 6,278.80	\$1		
Second, 1884	217,487,230	8,071.09				
Third, 1885	250,247,822		5,094.71	5,970.10		
Fourth, 1886	306,079,407	15,737.71	6,788,48	16.819.97		
F II UII, 100/	567,009,393	18,472,68	9,660.15	23,641.94		
Seventh 1889	684,163,754	21,032.65	10,	33,059.73		
Eighth, 1890	1,044,826,459		15,468	20,623.49		
Ninth, 1891	792,870,195			8,298		
Tenth, 1892	976,963,251			6,117.		
Eleventh, 1893	1,401,826,060			4 <u>1</u> ,		
Twelfth, 1894	1,230,879,120			ດົ ເ		
Thirteenth, 1895	1,471,417,615		31,364.70	2,007.01		\$ 1 314 63
Fourteenth, 1896	1,352,528,575		18,023.34		1 785 21	ج بردر
Fifteenth, 189/	1,040,898,093		17,685,86	25,570,57	િ	
Sixteenth, 1896	840 930 330	42,082,22			1	آ– آ
Eighteenth 1900	913,945,110		25,594.	27,548.	917.00	
Nineteenth 1901	1.004.213.751		27,552.	12,475.95	1,747.75	
Twentieth, 1902	1,367,072,596		30,806.	26,906.05		
Twenty-first 1903.	1,342,189,175					
Twenty-second, 1904.	1,539,282,342		42,1	27,418.38		
	1,686,870,720					
ے ،	1,614,735,375	65,783	37,3	15,845.		
139	1,770,899,795	66,548.88	38,873.19	22,540.32	2,566.50	Į
Total	24,673,777,061	\$813,247.14	\$548,278.59	\$575,545.97	\$21,701.71	\$27,941.28

A full detailed report of the finances of the Water Department is given in the report of the Secretary, D. S. Tobin.

Respectfully submitted,

T. H. VERNER, Superintendent.

# Report of Secretary.

McKeesport, Pa., January 1, 1908.

To the Honorable Board of Water and Lighting Commissioners, City of McKeesport.

Gentlemen:-I herewith submit my annual report of the financial affairs of the Water Department for the year beginning January 1, 1907, and ending December 31, 1907, as follows, viz.:

RECEIPTS FROM ALL SOURCES.	
By schedule rates       \$ 39,557 86         Meter rates       26,991 02         Special uses       445 86         Permit fees       2,634 85         Penalties       10,00         Meters sold       2,566 50         Miscellaneous       533,95	on a
Total Paid City Treasurer	\$ 72,740 04 72,740 04
Cash Receipts	72,740 04
CREDITS DUE THE DEPARTMENT.  404 fire hydrants at \$40.00 each	•
One street department stable.       36 00         One garbage furnace.       200 00         McKeesport Hospital.       250 00         Y. M. C. A.       200 00	the sound the state of
Carnegie Library	Contraction of the
Street washing	\$ 20,476 50
Total	\$ 93.216 54

# EXPENDITURES FOR 1907.

MAINTENANCE ACCOUN	T.				
Incidental repairs and expense\$  Office expenses  Pumping expense, main station  Pumping expense, high service station  Repairs, main station	248 4,495 17,589 5,249 1,517	64 .35 71			
Repairs, high service station	168 9,603				
Total cost of maintenance			\$	38,873	19
CONSTRUCTION ACCOUN					
Distributing mains	8,588 446	53			
Total cost of construction			\$	22,540	32
METERS.					
New meters\$ Meter repairs	3,002 1,021				
Total cost of meters Water for Tenth ward			\$	4,024 4,014	
Total expenditures for the year	9,994 65,000 3,383	00	\$	69,452	
Unexpended balance Jan. 1, 1908	*O OFF	=0		8,925	
\$ =	78,377	78	\$	18,377	78
RECAPITULATION.					
Total cash receipts for the year\$  Cost of maintenance and operation					
Cash received in excess of maintenance and operation			4	33,866	85
Total amount of receipts and credits\$  Total amount of expenditures					
Net amount of receipts and credits over all expenditures			\$	23,764	53
Expended for construction			\$	22,540	32
				1,214	2. 8

COMPARATIVE STATEME	NT.			
Receipts for 1907			4	
Decrease			\$ 1,004	40
EXPENDITURES.				
Expended for construction, 1907 Expended for construction, 1906				
Increase			\$ 6,694	70
Expended for maintenance and operation, 1907.5 Expended for maintenance and operation, 1906.	\$ 38,873 37,322			
1ncrease			\$ 1,550	91
Expended for meters and meter repairs, 1907\$ Expended for meters and meter repairs, 1906	4,024 2,398			
Increase			\$ 1,625	32
Expended for water, Tenth ward, 1907\$ Expended for water, Tenth ward, 1906	•			
Decrease			1,362	13
WATER SOFTENING AND FILTRAT	TION P	LA	NT.	
Filtration bond fund			\$200,000	00
CONSTRUCTION ACCOUNT.				
Softening plant	9,706 4,162 21,485 5,172	06 00 87 86		
Total expense			\$ 88,066	35
Balance in filtration bond fund			\$111,93 <b>3</b>	6 <b>5</b>
Amount issued water works			\$302,000	00
Bonds cancelled, water works	3,731	<b>3</b> 9	\$112,131	39
Net bonded debt			\$189,868	61
Respectfully submitted,				

D. S. TOBIN, Secretary.

# Schedule No. 1.

## Main Pipes Laid in 1907.

# ONE-INCH WROUGHT IRON PIPE.

Streets and Location.	reet.
Beaver street, from end of line west	72
Cliff street, from end of line south	164
Patterson avenue, from end of 4-inch line to Boyd street	185
Boyd street, from Patterson avenue west	187
Parker street, from end of 2-inch line south	188
Atcheson street, from end of 4-inch line west	40
Unnamed alley, from Youghiogheny avenue south	200
Ridge avenue, from Versailles avenue south	150
	1,186
1 Otal	1,100
FOUR-INCH CAST IRON PIPE.	219
Harrison street, from end of line north	
Library street, from end of line to Beech street	
Parker street, from end of line south	
Forest street, from end of line south	
Front street, from Youghiogheny avenue north	
Manning avenue, from Havilla to Monroe	
Havilla street, from Archer to Manning	•
Manning avenue, from Monroe street south	
Patterson avenue, from Versailles street north	
South Park street, from Twelfth street to Bridge street	
Rebecca street, from Atlantic avenue north (relaid)	-
For By-pass, Market and Thirteenth street	•
Railroad street, from Thirteenth street north	
Sill avenue, from Orchard street west	•
Beech street, from end of line north	
(Special) for garbage furnace	
For fire hydrant on Library avenue	-
Total	. 0,/35

SIX-INCH CAST IRON PIPE.	
Streets and Location.	Feet
Sill avenue, from Hamilton to end of line	230
Hamilton avenue, from Sill avenue to Green street.	540
Green street, from Hamilton west	. 135
Parker street, from Beaver to Grover	260
Grover street from Parker street east	190
Centennial avenue, from Fifteenth street west	85
Franklin street, from end of line south	691
Versailles avenue, from Union avenue east to viaduct	. 449
Versailles avenue, from end of line west to viaduct	. 198
Bridge street, from Versailles avenue south	. 15
Union avenue, from Versailles avenue north	. 73
Rebecca street, from Atlantic avenue south (relaid)	. 120
River street, from end of line to Duquesne avenue.	166
Orchard street, from end of line to Sill avenue.  Fifteenth street, from Huey to Centennial	111
Library avenue, from Union west (to connect)	227
Railroad street, at ice plant	114
,	
Total	3,629
EIGHT-INCH CAST IRON PIPE.	0.
For By-pass, Walnut and Thirteenth street	27
Tube Works street, from Shaw avenue south	
Total	247
TWELVE-INCH CAST IRON PIPE.	
Ash street, from Fifth avenue to Sylvan avenue	285
Sylvan avenue, from Ash street to Elm	360
Elm street, from Sylvan avenue to valve	12
Total	
SIXTEEN-INCH CAST IRON PIPE.	037
	0.4
Market street, from Thirteenth street north Thirteenth street, from Market street to Walnut street	35
Total	464
TWENTY-INCH CAST IRON PIPE.	
Railroad street, from pump station to Thirteenth street	1 503
TWENTY-FOUR-INCH CAST IRON PIPE.	1,500
	040
Pump station to filtration plant	646
THIRTY-INCH CAST IRON PIPE.	
Pump station to filtration plant	553

#### Schedule No. 2.

#### FIRE HYDRANTS SET IN 1907.

- 1. Corner Hamilton street and Sill avenue.
- 2. Corner Hamilton street and Green street.
- 3. Corner Front street and Houghton avenue.
- 4. At city stables, Railroad street.
- 5. Corner Manning avenue and Monroe street.
- 6. Corner Manning avenue and Lysle street.
- 7. Corner Centennial and Fifteenth street.
- 8. Corner Boyle street and Franklin avenue.
- 9. Corner River street and Duquesne avenue.
- 10. On Library avenue near Union avenue.

# Schedule No. 3.

## STREET VALVES PLACED IN 1907.

	Streets and Location. Size in Inches	es.
${\rm On}$	Sill avenue west line of Hamilton avenue	6
On	fire hydrant line, Sill avenue and Hamilton avenue	4
On	Hamilton avenue, north line of Green street	6
On	Hanilton avenue, north line of Florence street	6
On	fire hydrant line at corner of Hamilton and Green street	4
On	Parker street, north line of Beaver street	6
On	Grover street, east line of Parker street	6
On	Harrison street, south line of Randal street	4
On	Manning street, south line of Havilla street	4
On	Manning street, north line of Monroe street	4
On	Havilla street, east side of Archer street	4
On	Library street, west line of Beech street	4
On	fire hydrant line at corner of Front street and Houghton	4
On	Manning street, north line of Lysle	4
On	fire hydrant line, corner of Manning and Monroe streets	4
On	Centennial street, west line of Fifteenth street	6
On	Park street, south line of Twelfth street	4
On	Park street, north line of Bridge street	4
On	fire hydrant line on Park street	4
On	Franklin street, east line of Boyle street	6
On	Franklin street, east line of Orchard street	6
On	fire hydrant line at corner of Boyle and Franklin streets	4
	Versailles avenue, east line of Union avenue	6
${\rm On}$	Versalles avenue, 30 feet west of viaduct	6
	Versailles avenue, east end of viaduct	6
On	Union avenue at the corner of Versailles avenue	6
	by-pass at the corner of Market and Thirteenth streets	4
	north side of by-pass, Market and Thirteenth streets	4
	Market street, north line of Thirteenth street	4
	Thirteenth street, east line of Market street	
On	Thirteenth street, east line of Railroad street	16

	Streets and Location. Sizes in inch	es.
On	Railroad street, north line of Thirteenth street	4
On	by-pass at the corner of Railroad and Thirteenth streets	4
On	Thirteenth street, east of B. & O. railroad	16
On	by-pass at the corner of Walnut and Thirteenth streets	8
On	Walnut street, north of by-pass	8
On	Walnut street, south of by-pass	8
On	Thirteenth street, east line of Walnut street	16
On	River street, west line of Duquesne avenue	6
On	fire hydrant line at corner of River and Duquesne avenue	1
On	Orchard street, east line of Sill avenue	6
On	Beech street, north line of Library avenue	4
On	fire hydrant line at the corner of Beech and Library avenue.	4
On	Fifteenth street, south line of Huey street	6
On	Fifteenth street, north line of Centennial street	6
On	fire hydrant line, corner of Thirteenth and Railroad streets.	4
On	Evans avenue, south line of Versailles avenue	6
On	Tube Works street, south line of Shaw avenue	8
On	Tube Works street at opera house	8
On	fire hydrant line on Library avenue near Union avenue	4
On	Ash street, north line of Fifth avenue	12
On	Sylvan avenue, east line of Ash street	12
On	Elm street, north line of Sylvan avenue	12
On	Fifth avenue at Ash street	. 12
On	blow-off at the corner of Fifth avenue and Ash street	. 6
On	line to ice plant on Railroad street	. 4
On	Railroad street, south line of Thirteenth street	. 20 24
On	Railroad street at treating plant	. 21 16
On	rising main, east line of Railroad street	. 10
On	rising main, west line of Railroad street	. 10
Or	Railroad street, north side of rising main	20
Or	Railroad street, south side of rising main	. 40

# Summary

# Of Mains, Valves and Fire Hydrants.

	MAIN	S-WROU	GHT IRO	N.		
Sizes in	Previously		Laid in		Total.	Dec.
inches.	Reported.		1907.		31, 19	07.
1	5.028 feet		1 186 feet		6 214	foot
2	3,033 Teet	••••••••			3,655	feet
J	302 feet	•••••				
	2,124 feet			••••••	2,124	feet
6	5,789 feet				5,789	feet
8	965 feet				965	feet
10	1,593 feet				1,593	feet
Total	19516 feet	-	1 100 foot		00.700	
1 0 00111111111111111111111111111111111	13310 1661		1,100 feet		20,702	teet
		INS-ÇAS'				
Sizes in Pr	eviously	Raised in	Laid	in	Tolal, I	Dec.
Inches. Re	eported.	1097.	190	7.	31, 19	07.
4 134	,477 feet	468 feet	3,759	feet	137,768	feet
6 88	,184 feet	120 feet	3,629	feet	91.693	
8 27	,042 feet	•••	247	feet	27,289	feet
	,004 feet		• • • • • •	******	1,004	feet
12 20	,187 feet	•••	657	feet	20,844	feet
	,581 feet		464	feet	6,045	f <b>e</b> et
	,341 f <b>e</b> et	•••	1,503 ±	feet	3,844	feet
24	•••••	• • •	646 1	feet	646	feet
30	•••••	•••	553 f	feet	5 <b>53</b> :	feet
Total278	,816 feet	588 feet	11,458 f	eet	289,686	f <b>e</b> et
Total wrong	ht iron mains				20.702	foct
Total cast ire	ht iron mains on mains	•	• • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	280,702	foot
Total	***********************************	•••••	• • • • • • • • • • • • • • • •		203,000	reet
rotar	•••••	• • • • • • • • • • • • • • • • • • • •	O= 50 -		310,388	teet
			Or 58 a	ınd four-fi	iiths mi	les.

## VALVES.

Sizes in	Previously	Set in	In Use Dec.
Inches.	Reported.	1907.	31, 1907.
2	14		14
4	325	25	350
6	217		235
8	56	5	61
10	5		5
12	30	4	34
16	9	6	15
20	4	3	7
24		1	1
Total		62	$\overline{722}$

## FIRE HYDRANTS.

]	Previously	Set in	In Use Dec.
	Reported.	1907.	31, 1907.
		10	
Total		10	418

#### Schedule of Water Rates.

Water used on the following named service must be metered:

Hotels, Laundries, Breweries, Green Houses, Bottling Houses, Machine Shops, Foundries, Dyeing and Renovating Estab-Printing offices, lishments, Skating Rinks, Clubs, Livery, Boarding or Hotel Slaughter Houses, Stables, Yard Fountains, Public Baths, Steam Engines and Boilers, Counter Fountains, Brick Yards, Acquariums, Saloons, Hydraulic Motors,

And all manufacturing establishments, and all services where waste water from sinks is used to flushwater closets in houses or cellars.

#### METER RATES.

When the quantity of water used is ascertained by meter, the charges shall be as follows:

From 1 to 666 cubic feet in three months, lump sum \$1.00. From 656 cubic feet to 2,500 cubic feet in three months, add \$1.00 for first 666 cubic feet and 15 cents for each additional 100 cubic feet.

Over 2,500 cubic feet and up to 12,500 cubic feet in three months, add \$3.75 for the first 2,500 cubic feet and 10 cents for each additional 100 cubic feet.

Over 12,500 cubic feet in three months, add \$13.75 for first 12,500 cubic feet and 5 cents for each additional 100 cubic feet.

#### DWELLING HOUSES.

#### Occupied by One Family Only.

l'er Ar		
For first faucet or hydrant	5	00
For each additional faucet or hydrant	2	50
For first bath tub	4	00

For each additional bath tub	3	00
For the first pan or self-acting water closet, or any other		
form approved by the Water Committee, other than con-		
tinuous flowing	4	00
tilidous howing	0	00
For each additional water closet, same description	3	00
For each continuous flowing hopper water closet, provided		
to cach continuous noting hopper with him hope hope	20	$\Omega$
with one-sixteenth-inch disc in branch pipe	40	00
For use of hose see "Hose"		
When two faucets are used, one for hot and one for cold		
water, both emptying into one vessel, the charge shall be		
for one faucet.		

Where water is supplied to a premises for a bath tub, hose connection or other specific purpose alone, said fixtures will be subject to all charges for domestic or other uses that said fixtures may be applicable.

## DWELLING HOUSES.

#### Two or More Families.

Two of more ramines.		
For two or more families occupying the same house, or separate houses upon the same premises, and all using the same faucet or hydrant, each family	5 0	00
having one, at least, additional, the additional charge to each shall be	2 (	00
For two or more families using the same bath tub, for the first family	4 (3 (	
For two or more families using the same pan or self-acting water closet, for the first family	4 (3 (	00
For each water closet, continuous flow, disc not more than one-sixteenth-inch	20 (	00
BOARDING HOUSES.		
The family shall pay family rates upon all fixtures, and in addition thereto the following:  For from four to eight boarders, in addition	6 (	00
For each bath tub used by boarders	3	UU

For each water closet, pan or self acting	. 3	00
For urinals and	. 0	00
For urinals, each	4	$\Omega$
Design of a Control of the control o	• 1	OO
Private families having four or more boarders shall be		
and 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
rated as boarding houses.		
For a house occupied solely by lodgers, the charge on		
in the charge of		
each lodging room so let shall be	9	ΩΩ
GG	4	UU

# STORES, OFFICES, ETC.

# Families Separate at Family Rates.

Per An	num
For each tenement occupied as a store, bank, office, ware-	
house or small shop, or for a purpose not in any other	
classification, not requiring an unusual supply of water.	
without hose, for first faucet or hydrant	4 00
For each tenement occupied as above, without fixtures, but	1 00
accessible on premises	2 00
For each additional faucet or hydrant	4 00
Drug stores, first faucet or hydrant	8 00
Drug stores, each faucet or hydrant additional	4 00
Drug stores, tumbler washers, automatic	4 00
Drug stores, without fixtures, but accessible on premises	6 00
Bakeries, one faucet	8 00
Bakeries, without fixtures	6 00
Fish, meat markets or shops, first faucet or hydrant	10 00
Fish, meat market or shop, each faucet or hydrant additional.	5 00
Same, without fixtures, but on premises	5 00
Restaurant, dining and all other saloons, first faucet 1	00 01
Same, for each additional faucet	4 00
Same, without fixtures, but on premises	8 00
Restaurant, dining and all other saloons, each water closet.	5 00
Barber shops, first faucet	8 00
Same, for each additional faucet	4 00
Same, without fixtures, but aacessible on premises	6 00
Photograph galleries, first faucet 1	.0 00
Same, for each additional faueet	5 00
Same, without fixtures	5 00
Blacksmith shop, first faucet or hydrant	5 00
	2 00
Same, without fixtures	4 00
	8 00
	4 00
Same, without fixtures	6 00
Billiard rooms and bowling alleys, water closets, each	6 00

#### LODGE AND CLUB ROOMS. Per Annum Each room occupied by one lodge or by one club, with or withour faucet in room..... 4 00 Two or more lodges or clubs occupying the same room, each. 2 00 3 00 Wa, er closets, exclusive for one lodge or club. ..... Water closets, two or more lodges or clubs, each lodge or club. 1 50 4 00 Urinals, one or more lodges or clubs, each urinal....... The above is for lodges and clubs meeting weekly; meeting monthly one-fourth the above rates. PUBLIC HALLS. For the first faucet.....\$ 10 00 For each additional faucet..... For first water closet, pan or self-acting...... 8 00 For each individual water closet..... 4 00 For each urinal..... 4 00 PRIVATE STABLES. For one or two horses, including washing carriage with hose...\$ 4 00 For each additional horse, same as above.... 1 50 For use of hose for washing carriages, one or two carriages. 4 00 For each additional carriage..... 1 50 For each cow or ox..... 1 00 SCHOOLS, PUBLIC AND PRIVATE. For average number in attendance, without regard to faucet, 05 For each water closet, pan or self-acting..... For each water closet, constant flow, one-sixteenth-inch disc in branch pipe.. ..... 20 00 HOSE. No contract for use of hose for less term than one year. For the use of hose for washing windows and other similar uses inside of premises, including watering gardens or lawns for less than 5,000 square feet ......\$ 4 00 For washing outside pavements, fronts, etc., and for sprinkling streets in front of premises, as follows: Dwelling houses, lot 40 feet front or less..... 4 00 Dwelling houses, lot 40 feet front or less, on corner ....... 6 00 Dwelling houses, lot 40 feet front, per foot additional..... Business houses, lot 20 feet front or less.....

Business houses, lot 20 feet or less, on corner	6 00
Business houses, lot 20 feet front, per foot additional	20
Use of hose without nozzle is strictly prohibited except	
when meter is used.	

No hose to have a nozzle to exceed ¼ of an inch in diameter, except where meter is used.

#### BUILDING PURPOSES.

For 1,000 bricks, wetting and making mortar\$	06
For stone masonry, per perch	03
For 100 square yards plastering	20

Quantities and uses to be fully stated at the time of application, and all bills payable on demand.

For purposes not named in this schedule, and for all special or peculiar uses of water, special assessments or contracts for measured or estimated water may be made by the superintendent.

The above rates are subject to such alterations and amendments as may from time to time be adopted by the Board of Water and Lighting Commissioners and approved by Councils.

Approved by Council, March 14, 1898.

Cost	of	Sar	vice	Pe	rmits.
11051		ACI	AICC	10	i illitto.

Width of Street.	Width of Pavement.	Width of Roadway.	Average Lineal Feet Service Pipe.	½-inc <b>h</b> Pipc.	⅓-inch Pipc.	¾-inch Pipe.	Onc-inch Pipe.
80 feet 80 '' 60 '' 50 '' 40 '' 33 '' 20 ''	12 feet 18 '' 9 '' 12 '' 10 '' 8 '' 6 '' 6 ''	56 feet 44 '' 42 '' 36 '' 24 '' 20 '' 18 ''	29 feet 23 '' 22 '' 19 '' 16 '' 13 '' 11 '' 9 ''	\$12 90 11 00 10 70 9 80 8 85 7 90 7 30 7 00 7 00	\$14 35 12 30 11 95 10 95 9 90 8 85 8 15 7 80 7 80	\$15 85 13 60 13 20 12 10 10 95 9 80 9 05 8 65 8 65	\$19 65 16 85 16 35 14 95 13 45 12 15 11 20 10 70 10 70
Branch	nes Addi	tional		4 00	4 25	4 45	4 90

Above one inch to be estimated by the superintendent.

# Cost of Setting Meters.

3/8-inch Meter	\$2.50
5%-inch and 34-inch Meter	
One-inch Meter	
1½ and 2-inch Meter	

All above 2 inches to be estimated by the superintendent.

## Meter Rents.

5%-inch Meter	\$1.00	per	quarter
34-inch Meter			
1-inch Meter		_	
1½-inch Meter			
2-inch Meter			
Z-Inch Meter	4.40	her	quarter

All above 2 inches to be estimated by the superintendent.

# Table Showing the Water Pressure in the Mains at Various Points of Location and Elevations Throughout the City.

LOCATION.	Elevation of Location above City Datum.	Water Pressure per square in., taken Dec., 1901.
Market street, corner First avenue Market street, corner Third avenue. Market street, corner Fifth avenue. Market street, corner Seventh avenue. Market street, corner Buena Vista street. Market street, corner Eleventh avenue. Rose street, corner Eleventh avenue. Walnut street, corner First avenue. Walnut street, corner Fifth avenue. Walnut street, corner Fifth avenue. Walnut street, corner Twelfth avenue. Walnut street, corner Twelfth avenue. Locust street, corner Tourteenth street. Jenny Lind street, corner Spring street. Jenny Lind street, below Fourteenth street. Highland avenue, corner Madison street. Highland avenue, corner Eighth avenue. Union avenue, corner Eighth avenue. Union avenue, corner Fish avenue. White street, corner Third avenue. White street, corner Third avenue. White street, corner Arch street Second street, near Water street. Electric light Station. North Diamond street, corner Blackberry alley. Fourth avenue, corner Water street. Fifth avenue, corner Water street. Fifth avenue, corner Sinclair street. Fifth avenue, corner Sheridan street. Fifth avenue, corner Huey street. Fifth avenue, corner Sheridan street. Fifth avenue, corner Huey street. Fifth avenue, corner Huey street. Fifth avenue, corner Sheridan street. Fifth avenue, corner Sheridan street. Fifth avenue, corner Center street.	75 88 92 88 88 80 76 76 87 91 98 95 125 178 149 234 218 232 256 178 236 257 115 85 105 79 86 92 88 92 76 92 102 99 116 104 95	LBS. 108 100 103 106 100 108 118 108 106 104 106 106 95 75 85 60 56 54 42 76 56 44 102 112 92 115 110 110 108 110 110 108 110 110 108 110 110

Table Showing the Water Pressure in the Mains at Various Points of Location and Elevation Throughout the City.

LOCATION.	Elevation of Location above City Datum.	Water Pressure per square in., taken Dec., 1901.
Fifth avenue, corner Riverton street.  Fifth avenue, at city line  Shaw avenue, corner Jenny Lind street  Shaw avenue, corner Huey street.  Shaw avenue, corner Coursin street.  Olive street, corner Locust street.  Ninth street, corner Mulberry alley  Whigham street, corner Locust street  Foot of Thirteenth street  Versailles avenue, corner Fulton street  Bowman avenue, at Cronemeyer residence  Havekotte's store, at Demmler station  Walnut street, corner Sixteenth street  Walnut street, corner Brown avenue.  Walnut street, corner Sill street  Blaine street, corner Juniata street  Houghton avenue, corner Beale street  At Main Pumping Station.  Fawcett street, corner Robinson street  Hospital	95 77 119 128 183 171 118 87 119 75 259 264 112 100 91 96	LBS. 110 118 100 92 68 74 95 112 94 118 45 40 105 110 118 118 118 118 118 118 118 118 118

T. H. VERNER,
Superintendent.

